

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

SAM. L. ROGERS, DIRECTOR

CENSUS OF WAR COMMODITIES
1918

TEXTILE FIBERS
WOOL, SILK, JUTE, AND KAPOK

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

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WOOL, SILK, JUTE, AND KAPOK.

The Census Bureau at the request of the War Industries Board issued questionnaires concerning various commodities and raw materials, to ascertain the available stocks, data bearing upon consumption and products, and the machinery capacity of the country for textile production in certain cases.

This report gives the statistics thus collected for wool, silk, jute, and kapok.

WOOL.

The wool schedule required a statement of the equipment of the woolen mills of the country, as of July 1, 1918; the consumption of wool in the grease; the scoured wool equivalent; and the production of woolen goods for the years 1917, 1916, and 1915. (See schedule reproduced on p. 4.)

Schedules were mailed to manufacturers of woolen goods, carpets and rugs, hosiery and knit goods, and to wool scourers. The returns from 1,074 concerns were finally tabulated, 874 of these being from woolen goods manufacturers. Some reports covered the operations of more than one establishment, noticeably that of the American Woolen Co. which combined the reports of 52 establishments or plants. The totals, therefore, can not be shown by states or geographic divisions. While hosiery and knit goods manufacturers were sent schedules, only 84 of the returns received from these were finally tabulated as producing woolen products.

A difference between the schedules used for gathering the information required as a war measure and the schedule ordinarily used to collect statistics of wool

manufactures by the Census Bureau was that, at the instance of the War Boards, quantities of wool goods were required to be reported in linear yards rather than, as usually required, in square yards and no comparison can be made with former census figures.

A preliminary report was issued to the War Boards August 7, 1918. The final report was issued October 1, 1918. In the analysis of the returns, the Census Bureau had the benefit of the expert advice of Mr. William J. Battison, assistant secretary and statistician of the National Association of Wool Manufacturers, who has in recent census reports on wool manufactures assisted in the capacity of consulting expert.

Table 1 shows the total wool machinery available in the United States, as of July 1, 1918, by class and kind, including the number of knitting machines producing woolen goods.

Table 2 shows the consumption of wool in the grease and the scoured wool equivalent during the years 1917, 1916, and 1915, and the quantities of the various wool manufactures for the same years.

Table 1.—WOOL MACHINERY IN THE UNITED STATES, JULY 1, 1918.

CLASS OR KIND.	Number.	CLASS OR KIND.	Number.
Scouring machines.....	510	Looms:	
Cards:		Broad looms—50 inches or over, reed space.....	62, 121
Woolen, sets.....	6, 296	Narrow looms—under 50 inches, reed space.....	18, 746
Worsted, sets.....	2, 278	Number (included above) employed ordinarily on—	
Shoddy, sets.....	933	Worsted goods.....	42, 448
Combs:		Woolen or mixed goods.....	34, 137
English (or Bradford) system.....	1, 912	Paper makers' felts (woven and felted).....	430
French system.....	435	Other goods—	
Shoddy pickers.....	1, 057	Blankets.....	1, 958
Garnet machines.....	432	Felts.....	56
Spindles:		Linings.....	86
Woolen.....	2, 705, 625	Plush.....	434
Worsted—		Shirting.....	301
English system.....	1, 641, 770	Press cloth.....	85
French system.....	699, 404	Shawls.....	33
Twisting.....	737, 784	Miscellaneous.....	96
Knitting machines:		Carpet and rug—	
Spring-beard needles—		Ingrain.....	858
Underwear.....	¹ 2, 345	Broad ingrain.....	496
Knitted cloth.....	641	Smyrna.....	942
Lining for rubber goods.....	² 263	Tapestry Brussels.....	1, 561
Miscellaneous goods.....	30	Tapestry velvet.....	1, 199
Latch needle—		Body Brussels.....	442
Hosiery.....	³ 4, 222	Wilton.....	1, 727
Underwear.....	1, 289	Axminster.....	2, 428
Sweaters.....	736	Colonial or rag.....	756
Knit cloth.....	277	All other carpets.....	93
Gloves.....	50		
Miscellaneous.....	640		

¹ Includes 83 machines in establishments engaged primarily in the manufacture of woolen goods.

² Includes 117 machines in establishments engaged primarily in the manufacture of woolen goods.

³ Includes 158 machines in establishments engaged primarily in the manufacture of woolen goods.

TEXTILE FIBERS—WOOL.

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Table 2.—CONSUMPTION AND PRODUCTION OF WOOL: 1917, 1916, AND 1915.

	Unit of measure.	1917	1916	1915
CONSUMPTION.				
Wool in the grease.....	Pounds.....	768, 272, 175	725, 391, 207	615, 913, 757
Scoured wool (equivalent).....	Pounds.....	388, 399, 842	373, 619, 703	317, 317, 530
PRODUCTION.				
Carded wool from—				
Woolen cards.....	Pounds.....	436, 491, 776	409, 914, 495	380, 465, 448
Worsted cards.....	Pounds.....	242, 600, 650	241, 896, 058	209, 729, 057
Shoddy cards.....	Pounds.....	58, 262, 187	45, 325, 563	43, 104, 318
Tops from—				
English (or Bradford) system.....	Pounds.....	188, 262, 156	191, 616, 686	159, 954, 497
French system.....	Pounds.....	24, 649, 580	24, 478, 562	21, 310, 612
Recovered wool fiber from—				
Shoddy pickers.....	Pounds.....	171, 748, 296	148, 658, 808	157, 684, 150
Garnet machines.....	Pounds.....	50, 240, 395	45, 803, 725	41, 853, 937
Yarns from—				
Woolen spindles.....	Pounds.....	393, 546, 822	358, 220, 518	342, 382, 073
Worsted spindles—				
English system.....	Pounds.....	145, 991, 074	148, 807, 362	130, 471, 252
French system.....	Pounds.....	47, 701, 523	47, 415, 307	40, 543, 680
Twisting spindles.....	Pounds.....	97, 012, 911	100, 584, 543	93, 045, 627
Paper makers' felts (woven and felted).....	Pounds.....	9, 609, 523	7, 705, 159	6, 721, 931
Felts.....	Pounds.....	369, 519	330, 920	265, 741
Press cloth.....	Pounds.....	2, 287, 406	2, 222, 921	2, 350, 866
Shawls.....	Dozen.....	3, 800	4, 300	4, 700
Worsted or mixed worsted goods.....	Linear yards.....	271, 592, 072	271, 141, 884	220, 140, 558
Woolen or mixed goods.....	Linear yards.....	257, 001, 862	234, 580, 366	207, 975, 155
Blankets.....	Single.....	911, 504	648, 462	750, 764
Blankets.....	Pairs.....	1, 446, 937	1, 217, 520	1, 125, 801
Blankets.....	Pounds.....	2, 999, 043	2, 282, 168	2, 263, 815
Blankets (including horse).....	Linear yards.....	3, 740, 783	3, 180, 647	2, 739, 775
Linings.....	Linear yards.....	2, 933, 847	2, 379, 534	1, 938, 869
Plush.....	Linear yards.....	3, 975, 090	4, 329, 184	4, 698, 223
Shirting.....	Linear yards.....	885, 623	78, 200	128, 200
Other cloth.....	Linear yards.....	1, 548, 140	1, 335, 980	1, 251, 180
Carpets and rugs:				
Ingrain.....	Linear yards.....	2, 978, 693	3, 516, 126	3, 492, 222
Broad ingrain.....	Linear yards.....	3, 435, 500	3, 488, 905	3, 055, 516
Smyrna.....	Linear yards.....	1, 235, 057	1, 319, 483	1, 077, 704
Tapestry Brussels.....	Linear yards.....	17, 298, 797	22, 880, 697	19, 995, 826
Tapestry velvet.....	Linear yards.....	7, 859, 556	9, 481, 698	8, 414, 420
Body Brussels.....	Linear yards.....	1, 299, 769	2, 812, 502	3, 102, 287
Wilton.....	Linear yards.....	6, 570, 755	8, 491, 436	7, 299, 774
Axminster.....	Linear yards.....	16, 140, 217	20, 120, 069	19, 011, 582
Colonial or rag.....	Linear yards.....	2, 572, 347	2, 808, 914	2, 175, 532
All other carpets.....	Linear yards.....	550, 485	577, 122	575, 633
Hosiery and knit goods: ¹				
Produced by—				
Spring-beard needle—				
Underwear ²	Dozen.....	1, 664, 323	1, 598, 973	1, 542, 858
Underwear.....	Pounds.....	3, 972, 139	3, 429, 500	3, 049, 208
Knitted cloth.....	Pounds.....	8, 323, 664	8, 083, 811	7, 321, 584
Lining for rubber goods ³	Pounds.....	3, 052, 985	2, 984, 058	2, 787, 427
All other.....	Pounds.....	91, 875	92, 107	92, 000
Latch needle—				
Hosiery ⁴	Dozen.....	3, 979, 221	3, 972, 220	4, 585, 229
Underwear.....	Dozen.....	867, 401	842, 228	830, 254
Underwear.....	Pounds.....	3, 394, 507	2, 419, 564	2, 081, 275
Sweaters.....	Dozen.....	212, 265	197, 881	194, 031
Knit cloth.....	Pounds.....	3, 227, 165	2, 807, 838	2, 045, 056
Gloves.....	Dozen.....	95, 646	90, 733	75, 207
All other.....	Dozen.....	398, 875	351, 097	299, 317
All other.....	Pounds.....	225, 206	190, 000	190, 000

¹ In addition to products of this character made by establishments engaged primarily in the manufacture of woolen goods, the products of 84 establishments engaged exclusively in producing hosiery and knit goods are included.

² Includes 52,139 dozen in 1915, 65,135 dozen in 1916, and 75,259 dozen in 1917, the product of establishments engaged primarily in the manufacture of woolen goods.

³ Includes 1,488,556 pounds in 1915, 1,591,541 pounds in 1916, and 1,804,435 pounds in 1917, the product of establishments engaged primarily in the manufacture of woolen goods.

⁴ Includes 189,830 dozen in 1915, 182,157 dozen in 1916, and 198,644 dozen in 1917, the product of establishments engaged primarily in the manufacture of woolen goods.

CENSUS OF WAR COMMODITIES.

SCHEDULE USED TO SECURE STATISTICS OF WOOL.

CONFIDENTIAL—WAR MEASURE

9-4804

[YY8-561]

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
SAM. L. ROGERS, DIRECTOR

STATISTICS OF WOOL MANUFACTURES
MACHINERY AND PRODUCTION

EUGENE F. HARTLEY
CHIEF STATISTICIAN FOR MANUFACTURES

NAME OF ESTABLISHMENT.....
LOCATION OF ESTABLISHMENT: State....., City or town.....
ADDRESS OF GENERAL OFFICE.....

IF A COMBINED REPORT, ENUMERATE PLANTS AND ESTABLISHMENTS COVERED BY THIS REPORT.
NAMES AND ADDRESSES:

GENERAL DESIGNATION OF GOODS:

WASHINGTON, D. C., July 20, 1918.

A census of machinery used in wool manufactures and the production of wool manufactures in connection therewith, accurate data concerning which are absolutely necessary to the proper conduct and furtherance of the war, is authorized by the Secretary of Commerce under the provisions of section 8 of the organic act creating the Department of Commerce and Labor, as follows:
"That the Secretary of Commerce * * * shall * * * from time to time make such special investigations and reports as he may be required to do by the President, or by either House of Congress, or which he himself may deem necessary and urgent."
And the special authority of the President of the United States, under date of April 8, 1918, as follows: "The Secretary of Commerce is hereby authorized to cause the compilation by the Bureau of the Census of such statistical data within its lawful scope and relating to the supply, production, and consumption of commodities as may be needed and be called for by any branch of the Federal Government in connection with the conduct of the war."
Information regarding individual concerns will be kept strictly confidential, but aggregate statistics, from which individual figures can not be deduced, may be placed at the disposal of the trade.
Important.—The present war emergency demands the patriotic cooperation of all interests that centralized information may be available to permit immediate and complete use of all facilities, the conservation of raw materials and efficient distribution thereof. **Accurate and prompt replies are imperative.**

SAM. L. ROGERS,
Director of the Census

CERTIFICATE

This is to certify that the information contained in this schedule is complete and correct to the best of my knowledge and belief.

(Signature of person furnishing the information)

Date,, 1918.

(Official designation)

WOOL MACHINERY AND PRODUCTION.

EQUIPMENT: JULY 1, 1918.		PRODUCTION. (If book accounts are not available, give the best estimates that conditions permit of.)		
CLASS OF MACH.	NUMBER.	COMMODITY AND UNIT.	1918	1917
SCOURING MACHINES.....		Grease wool, pounds.		
		Scoured wool, equivalent, pounds.....		
CARDS:				
Woolen, sets (width.....)		Pounds.....		
Worsted (width.....)		Pounds.....		
Sheddy (width.....)		Pounds.....		
COMBS:				
English (or Bradford) system.....		Tops, pounds.....		
French system.....		Tops, pounds.....		
SPINDLES:				
Woolen.....		Yarn, pounds.....		
Worsted—				
English system.....		Yarn, pounds.....		
French system.....		Yarn, pounds.....		
Twisting.....		Yarn, pounds.....		
LOOMS:				
Broad looms—50 inches or over, reed space.....		X X X.....		
Narrow looms—Under 50 inches, reed space.....		X X X.....		
Number (included above) employed ordinarily on:				
Worsted goods.....		Linear yards.....		
Woolen or mixed goods.....		Linear yards.....		
Other goods (state kind)—				
Paper makers' felts (woven and felted).....		Pounds.....		
		Linear yards.....		
		Linear yards.....		
Carpet and rug—				
Togralin.....		Linear yards.....		
Broad ingrain.....		Linear yards.....		
Venetian.....		Linear yards.....		
Tapestry Brussels.....		Linear yards.....		
Tapestry velvet.....		Linear yards.....		
Tudy Brussels.....		Linear yards.....		
Wilton.....		Linear yards.....		
Armstrong.....		Linear yards.....		
Moquette.....		Linear yards.....		
Smyrna.....		Linear yards.....		
Colonial or rag.....		Linear yards.....		
SHEDDY PICKERS.....		Pounds.....		
GARNET MACHINES.....		Pounds.....		
		Name commodity and unit.		
KNITTING MACHINES:				
Spring-beard needle.....				
Latch needle.....				

SILK.

The statistics for silk are based upon 60 returns made by dealers and jobbers, 132 made by throwsters or establishments engaged in the manufacture of organzine or tram, chiefly on a commission or contract basis, and 1,396 returns from manufacturers of finished silk products—a total of 1,588 establishments.

Stocks were reported as of date June 1, 1918, and embraced those on hand, in transit within the United States and Canada, afloat or on the high seas, and stocks owned abroad but not yet placed aboard vessels for transportation. The inquiry in regard to consumption called for a report of the quantities consumed during the first portion of the year 1918—January 1 to May 31—and estimated requirements for the balance of the year, and consumption figures for the calendar years 1917, 1916, and 1915. The schedule (reproduced on p. 10) contained inquiries in regard to production of organzine, tram, spun silk, and silk wastes in 1917, 1916, and 1915, and machinery equipment on June 1, 1918.

With respect to production, many of the returns are defective. Statistics based upon them would be misleading and they have not been included in this report.

The schedule also contained an inquiry in regard to consumption of logwood dyes, for the year 1917 and the first portion of 1918, and requirements for the balance of the year. The statistics therefor are here given, but they are not to be taken as representing the

total consumption of logwood dyes in the silk industry. The dyeing and finishing of textiles is to a large extent done in independent establishments and the figures here given relate only to consumption by silk mills operating dyeing and finishing departments.

A graphic presentation of the statistics precedes the tables and the schedule follows.

Table 3 presents in detail the statistics for stocks of silk and artificial silk on June 1, 1918.

Table 4 shows the imports of silk for the fiscal years ending June 30, 1918, 1917, 1916, and 1915.

Table 5 gives in detail the statistics for consumption of silk, artificial silk, and of logwood dyes in silk mills for the calendar years 1918, 1917, 1916, and 1915. The statistics for 1918 comprise actual consumption during the period January 1 to May 31 and estimated requirements for the remainder of the year, June 1 to December 31.

Table 6 shows the equipment of the silk mills in spindles, cards, dressing machines, looms, and Jacquard machines on June 1, 1918, with segregation of idle equipment and distribution of active equipment to show that employed on military or naval orders.

The following tabular statement shows the statistics for equipment of June 1, 1918, in comparison with that reported for the Census of Manufactures, 1914 and 1909:

EQUIPMENT.	1918 (June 1).	1914 (Dec. 31).	1909 (Dec. 31).	PER CENT OF INCREASE. ¹	
				1914-1918	1909-1914
SPINDLES.....	2, 939, 797	2, 808, 702	2, 415, 527	4. 7	16. 3
Throwing, winding spindles.....	698, 682	677, 960	637, 565	3. 1	6. 3
Spinning and twisting.....	2, 072, 331	2, 023, 491	1, 647, 415	2. 4	22. 8
Spun silk, spinning.....	147, 974	107, 251	130, 547	57. 4	-17. 8
Noil yarn, spinning.....	20, 810				
LOOMS.....	105, 087	85, 058	75, 406	23. 5	12. 8
Other than velvet and ribbon:					
Over 40-inch reed space.....	62, 591	44, 549	35, 214	40. 5	26. 5
40-inch or under reed space.....	26, 425	26, 431	28, 426	.....	-7. 0
Velvet looms.....	3, 963	2, 524	1, 196	57. 0	111. 0
Ribbon looms.....	12, 108	11, 554	10, 570	4. 7	9. 3
JACQUARD MACHINES.....	11, 762	6, 826	8, 985	.....	.....

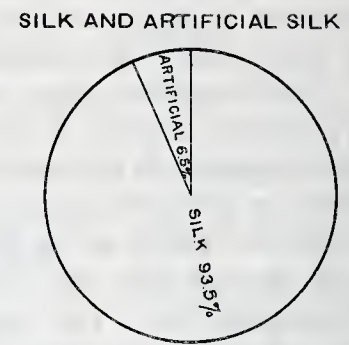
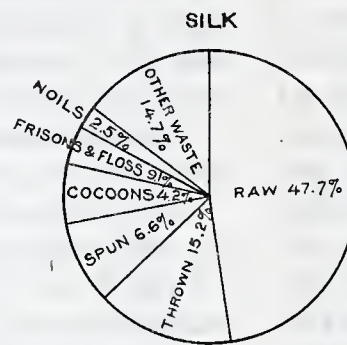
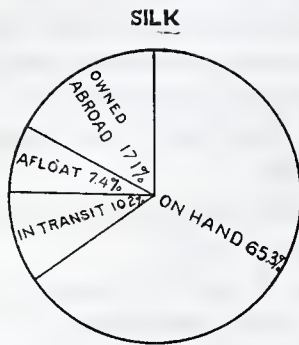
¹ A minus sign (—) denotes decrease.

CENSUS OF WAR COMMODITIES.

STOCKS, JUNE 1, 1918; CONSUMPTION, 1918, 1917, 1916, AND 1915.

Stocks, June 1, 1918:

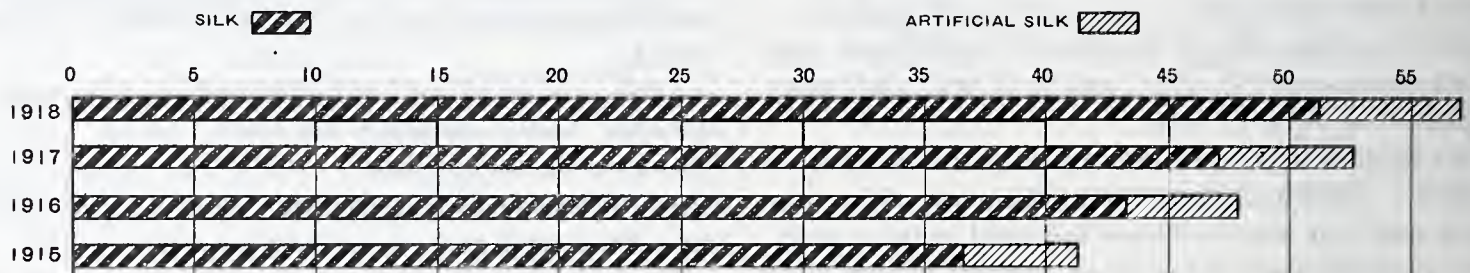
Silk 24,864,963 pounds
 Artificial silk 1,737,583 "
 Combined . . 26,602,546 "



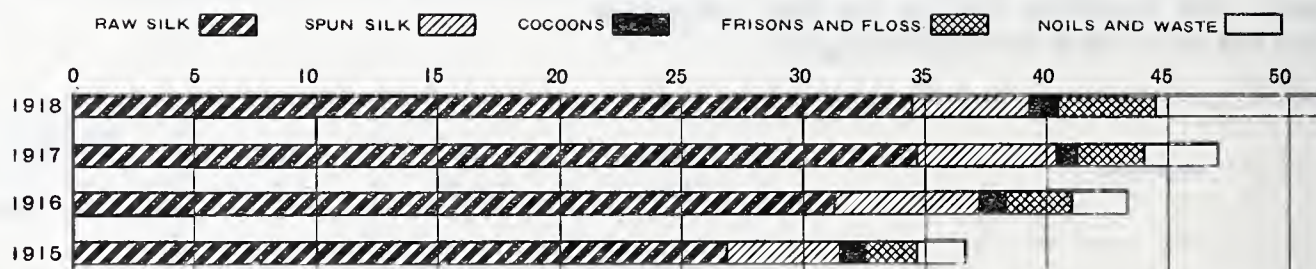
CONSUMPTION, 1918, 1917, 1918 AND 1915

MILLIONS OF POUNDS

SILK AND ARTIFICIAL SILK



SILK



Consumption--pounds.

	1918	1917	1916	1915
Silk	51,335,502	47,138,508	43,305,056	36,633,101
Raw silk	34,470,411	34,772,477	31,280,508	26,820,403
Spun silk	4,835,174	5,481,883	5,989,583	4,724,117
Cocoons	1,103,219	1,001,450	1,099,826	931,872
Frisons and floss . . .	4,005,053	2,746,193	2,640,420	2,171,715
Noils and waste	6,921,645	3,136,505	2,294,719	1,984,994
Artificial silk	5,801,038	5,619,730	4,645,607	4,683,543

TEXTILE FIBERS—SILK.

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Table 3.—DETAIL STATISTICS FOR STOCKS OF SILK AND ARTIFICIAL SILK ON JUNE 1, 1918.

	Number of establishments.	TOTAL.		On hand (pounds).	In transit (pounds).	Afloat (pounds).	Owned abroad (pounds).
		Pounds.	Per cent distribution.				
Silk, total.....	1,588	24,864,963	100.0	16,235,878	2,527,822	2,034,663	4,066,600
Raw silk.....		11,863,177	47.7	7,420,673	1,448,816	1,258,145	1,735,543
Thrown silk.....		3,770,545	15.2	3,454,514	274,656	20,275	21,100
Spun silk (including schappe).....		1,638,641	6.6	1,384,642	130,270	121,509	2,220
Pierced cocoons.....		1,036,824	4.2	663,157	16,667	55,800	301,200
Frisons and floss.....		2,269,571	9.1	1,131,472	262,502	204,810	670,787
Noils.....		622,799	2.5	545,188	55,211		22,400
Other waste.....		3,663,406	14.7	1,636,232	339,700	374,124	1,313,350
Artificial silk.....	395	1,737,583	100.0	1,537,760	122,143	5,890	71,790
Dealers and jobbers.....	19	149,655	8.6	62,265	15,400	200	71,790
Manufacturers.....	376	1,587,928	91.4	1,475,495	106,743	5,690	
SILK.							
Dealers and jobbers.....	60	3,326,856	13.4	2,183,180	192,928	441,262	509,486
Raw silk.....		3,070,349		2,010,389	148,693	440,381	470,886
All other.....		256,507		172,791	44,235	881	38,600
By states:							
New York.....	38	3,140,229	12.6	2,078,353	149,728	441,262	470,886
New Jersey.....	8	18,908	0.1	18,908			
Massachusetts.....	7	118,126	0.5	65,126	43,000		10,000
Pennsylvania, Connecticut, and California.....	7	49,593	0.2	20,793	200		28,600
Throwsters.....	132	2,228,047	9.0	1,706,138	129,359	79,550	313,000
Raw silk.....		2,052,281		1,541,934	117,797	79,550	313,000
All other.....		175,766		164,204	11,562		
By states:							
Pennsylvania.....	90	893,851	3.6	839,041	54,810		
New Jersey.....	27	455,785	1.8	453,085	2,700		
New York.....	7	142,157	0.6	120,116	11,491	10,550	
All other states.....	8	736,254	3.0	293,896	60,358	69,000	313,000
Manufacturers (other than throwsters).....	1,396	19,310,060	77.6	12,346,560	2,205,533	1,513,851	3,244,114
Raw silk.....		6,740,547		3,868,350	1,182,326	738,214	951,657
Thrown silk.....		3,621,515		3,314,846	265,294	20,275	21,100
Spun silk.....		1,623,431		1,370,513	130,070	120,628	2,220
Pierced cocoons.....		1,032,824		659,157	16,667	55,800	301,200
Frisons and floss.....		2,262,471		1,124,372	262,502	204,810	670,787
Noils.....		481,191		471,180	10,011		
Other waste.....		3,548,081		1,538,142	338,665	374,124	1,297,150
By states:							
New Jersey.....	432	4,390,747	17.6	2,942,865	452,288	683,494	312,100
Paterson.....	323	1,203,857	4.8	1,030,363	122,409	36,985	14,100
Balance of state.....	109	3,186,890	12.8	1,912,502	329,879	646,509	298,000
Pennsylvania.....	373	5,743,118	23.1	3,668,938	814,619	275,008	984,553
New York.....	260	3,511,188	14.1	1,513,724	474,656	81,997	1,440,811
Massachusetts.....	104	2,221,078	8.9	1,170,177	112,292	446,459	492,150
Connecticut.....	53	1,952,804	7.9	1,713,114	199,697	25,493	14,500
Rhode Island.....	53	1,209,322	4.9	1,087,523	121,799		
Ohio.....	26	2,633	(¹)	2,633			
Illinois.....	24	91,256	0.4	81,390	9,866		
Tennessee.....	11	5,882	(¹)	2,670	3,212		
New Hampshire.....	9	51,272	0.2	48,454	2,818		
Wisconsin.....	9	34,835	0.2	34,171	664		
California.....	8	268	(¹)	268			
Maine.....	5	1,921	(¹)	1,651	270		
Michigan.....	4	5,937	(¹)	5,541	396		
Virginia.....	4	10,175	(¹)	9,446	729		
All other states.....	21	77,624	0.3	63,995	12,229	1,400	

¹ Less than one-tenth of 1 per cent.

CENSUS OF WAR COMMODITIES.

Table 4.—IMPORTS OF SILK FOR THE FISCAL YEARS ENDING JUNE 30, 1918, 1917, 1916, AND 1915.

	1918	1917	1916	1915	PER CENT OF INCREASE. ¹		
					1917-1918	1916-1917	1915-1916
Total unmanufactured silk:							
Pounds.....	43, 282, 366	40, 351, 423	41, 925, 297	31, 052, 674	7. 3	3. 8	35. 0
Value.....	\$188, 454, 812.	\$160, 571, 807	\$124, 333, 655	\$83, 130, 557	17. 4	29. 1	49. 6
RAW SILK:							
Pounds.....	34, 447, 575	33, 868, 885	33, 070, 902	26, 030, 925	1. 7	2. 4	27. 0
Imported from—							
Japan.....	28, 371, 063	26, 341, 833	22, 914, 898	18, 217, 083	7. 7	15. 0	25. 8
China.....	6, 059, 089	7, 006, 700	7, 419, 616	5, 097, 169	-13. 5	-5. 6	45. 6
Italy.....	7, 309	467, 405	2, 545, 845	2, 610, 570	-98. 4	-81. 6	-2. 5
France.....	5, 673	35, 767	127, 076	49, 843	-84. 1	-71. 9	155. 0
All other countries.....	4, 441	17, 180	63, 467	56, 260	-74. 2	-72. 9	12. 8
Value.....	\$180, 906, 287	\$156, 085, 649	\$119, 484, 223	\$80, 531, 785	15. 9	30. 6	48. 4
COCOONS:							
Pounds.....	251, 447	62, 056	197, 073	51, 495	305. 2	-68. 5	282. 7
Value.....	\$319, 349	\$54, 994	\$142, 743	\$35, 114	480. 7	-61. 5	306. 5
WASTE:							
Pounds.....	8, 583, 344	6, 420, 482	8, 657, 322	4, 970, 254	33. 7	-25. 1	74. 1
Value.....	\$7, 229, 176	\$4, 431, 164	\$4, 706, 689	\$2, 563, 658	63. 1	-5. 9	83. 6

¹ A minus sign (—) denotes decrease.

Table 5.—CONSUMPTION OF SILK, ARTIFICIAL SILK, AND LOGWOOD DYES FOR THE CALENDAR YEARS 1918, 1917, 1916, AND 1915.

	Number of establishments.	1918			1917	1916	1915	PER CENT OF INCREASE. ¹		
		Total.	Jan. 1-May 31.	Estimated requirements June 1-Dec. 31.				1917-1918	1916-1917	1915-1916
		Pounds.	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.			
SILK.....	1, 528	51, 335, 502	21, 298, 502	30, 037, 000	47, 138, 508	43, 305, 056	36, 633, 101	8. 9	8. 8	18. 2
Raw silk.....		34, 470, 411	14, 608, 411	19, 862, 000	34, 772, 477	31, 280, 508	26, 820, 403	-0. 9	11. 2	16. 6
Spun silk.....		4, 835, 174	1, 966, 174	2, 869, 000	5, 481, 883	5, 989, 583	4, 724, 117	-17. 2	-2. 5	26. 8
Pierced cocoons.....		1, 103, 219	455, 219	648, 000	1, 001, 450	1, 099, 826	931, 872	10. 2	-8. 9	18. 0
Frisons and floss.....		4, 005, 053	1, 873, 053	2, 132, 000	2, 746, 193	2, 640, 420	2, 171, 715	45. 8	4. 0	21. 6
Noils and other waste.....		6, 921, 645	2, 395, 645	4, 526, 000	3, 136, 505	2, 294, 719	1, 984, 994	120. 7	36. 7	21. 7
ARTIFICIAL SILK.....	376	5, 801, 038	2, 547, 038	3, 254, 000	5, 619, 730	4, 645, 607	4, 683, 543	3. 2	21. 0	-0. 8
LOGWOOD DYES (consumption by silk mills):										
In form of logwood.....	9	649, 325	322, 725	326, 600	1, 025, 239			-37. 3		
In form of extracts.....	104	3, 865, 032	1, 549, 632	2, 315, 400	4, 878, 313			-20. 8		
Paste.....		2, 264, 874	1, 028, 874	1, 236, 000	2, 914, 788			-22. 3		
Crystal.....		46, 287	23, 887	22, 400	82, 222			-43. 7		
Other.....		1, 553, 871	496, 871	1, 057, 000	1, 881, 303			-17. 4		

¹ A minus sign (—) denotes decrease.

TEXTILE FIBERS—SILK.

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Table 6.—MACHINERY EQUIPMENT OF SILK MILLS ON JUNE 1, 1918.

KIND.	Total number.	NUMBER ENGAGED ON—		Idle.	PER CENT OF TOTAL.		
		Military and naval orders.	Other work or orders.		Military and naval.	Other.	Idle.
SPINDLES.....	2, 939, 797	204, 032	2, 539, 617	196, 148	6. 9	86. 5	6. 6
Throwing, winding spindles (raw silk only)	698, 682	24, 567	622, 792	51, 323	3. 5	89. 2	7. 3
Spinning and twisting.....	2, 072, 331	106, 387	1, 840, 258	125, 686	5. 1	88. 8	6. 1
Spun silk, spinning.....	147, 974	68, 316	62, 469	17, 189	46. 6	41. 8	11. 6
Noil yarn, spinning.....	20, 810	4, 762	14, 098	1, 950	22. 9	67. 7	9. 4
Throwsters.....	1, 427, 032	29, 839	1, 345, 997	51, 196	2. 1	94. 3	3. 6
Throwing, winding spindles.....	345, 062	4, 409	326, 707	13, 946	1. 3	94. 7	4. 0
Spinning and twisting.....	1, 070, 114	24, 740	1, 010, 274	35, 100	2. 3	94. 4	3. 3
Other.....	11, 856	690	9, 016	2, 150	5. 8	76. 1	18. 1
Manufacturers (other than throwsters).....	1, 512, 765	174, 193	1, 193, 620	144, 952	11. 5	78. 9	9. 6
Throwing, winding spindles.....	353, 620	20, 158	296, 085	37, 377	5. 7	83. 7	10. 6
Spinning and twisting.....	1, 002, 217	81, 647	829, 984	90, 586	8. 1	82. 9	9. 0
Spun silk.....	145, 774	68, 316	60, 469	16, 989	46. 9	41. 4	11. 7
Noil yarn, spinning.....	11, 154	4, 072	7, 082	.....	36. 5	63. 5	.....
By states (total):							
Connecticut.....	134, 481	22, 860	97, 097	14, 524	17. 0	72. 2	10. 8
Massachusetts.....	240, 247	36, 557	177, 072	26, 618	15. 2	73. 7	11. 1
Maryland.....	14, 376	.....	12, 636	1, 740	.....	87. 9	12. 1
New Jersey.....	493, 141	9, 051	453, 382	30, 708	1. 8	92. 0	6. 2
New York.....	297, 134	14, 455	268, 566	14, 113	4. 9	90. 3	4. 8
Pennsylvania.....	1, 622, 806	80, 661	1, 444, 510	97, 635	4. 0	90. 0	6. 0
Rhode Island.....	54, 124	35, 168	18, 826	130	65. 0	34. 7	0. 3
All other.....	83, 488	5, 280	67, 528	10, 680	6. 3	80. 9	12. 8
CARDS.....	70, 130	79	70, 051	.....	0. 1	99. 9	.....
DRESSING MACHINES.....	2, 784	1, 320	1, 224	240	47. 4	44. 0	8. 6
LOOMS.....	105, 087	4, 003	81, 300	19, 784	3. 8	77. 4	18. 8
Other than velvet and ribbon.....	89, 016	2, 930	70, 585	15, 501	3. 3	79. 3	17. 4
Over 40-inch reed space.....	62, 591	2, 022	50, 959	9, 610	3. 2	81. 5	15. 3
40-inch or under reed space.....	26, 425	908	19, 626	5, 891	3. 4	74. 3	22. 3
Velvet looms.....	3, 963	538	3, 050	375	13. 6	76. 9	9. 5
Ribbon looms.....	12, 108	535	7, 665	3, 908	4. 4	63. 3	32. 3
By states:							
Connecticut.....	6, 155	794	4, 354	1, 007	12. 9	70. 7	16. 4
Massachusetts.....	9, 579	139	7, 548	1, 892	1. 5	78. 7	19. 8
New Jersey.....	38, 313	306	30, 980	7, 027	0. 8	80. 9	18. 3
New York.....	8, 835	342	6, 724	1, 769	3. 9	76. 1	20. 0
Pennsylvania.....	34, 523	1, 695	26, 131	6, 697	4. 9	75. 7	19. 4
Rhode Island.....	5, 101	413	3, 999	689	8. 1	78. 4	13. 5
All other.....	2, 581	314	1, 564	703	12. 2	60. 6	27. 2
JACQUARD MACHINES.....	11, 672	46	7, 685	3, 941	0. 4	65. 8	33. 8
Attached (Jacquard looms included above)	8, 939	46	7, 286	1, 607	0. 5	81. 5	18. 0
Detached or disconnected.....	2, 733	.....	399	2, 334	.....	14. 6	85. 4

SCHEDULE USED TO SECURE STATISTICS OF SILK.

CONFIDENTIAL—WAR MEASURE

B-4895

[YY5-558]

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
SAM. L. ROGERS, DIRECTOR

STATISTICS OF SILK

EUGENE F. HARTLEY
CHIEF STATISTICIAN FOR MANUFACTURES

NAME OF ESTABLISHMENT

LOCATION OF ESTABLISHMENT: State City or town

ADDRESS OF GENERAL OFFICE

NATURE OF BUSINESS
(State whether manufacturer, wholesaler, jobber, or importer and exporter.)

IF A COMBINED REPORT, ENUMERATE PLANTS AND ESTABLISHMENTS COVERED BY THIS REPORT.
NAMES AND ADDRESSES:

WASHINGTON, D. C., June 15, 1918.

A census of the stocks of silk on hand and in transit, accurate data concerning which are absolutely necessary to the proper conduct and furtherance of the war, is authorized by the Secretary of Commerce under the provisions of section 9 of the organic act creating the Department of Commerce and Labor, as follows:

"That the Secretary of Commerce * * * shall * * * from time to time make such special investigations, and reports as he may be required to do by the President, or by either House of Congress, or which he himself may deem necessary and urgent."

And the special authority of the President of the United States, under date of April 8, 1918, as follows: "The Secretary of Commerce is hereby authorized to cause the compilation by the Bureau of the Census of such statistical data within its lawful scope and relating to the supply, production, and consumption of commodities as may be needed and be called for by any branch of the Federal Government in connection with the conduct of the war."

Information regarding individual concerns will be kept strictly confidential, but aggregate statistics, from which individual figures can only be deduced, may be placed at the disposal of the trade.

Important.—The present war emergency demands the patriotic cooperation of all interests that centralized information may be available to permit immediate and complete use of all facilities, the conservation of raw materials and efficient distribution thereof. Accurate and prompt replies are imperative.

SAM. L. ROGERS,
Director of the Census.

CERTIFICATE

This is to certify that the information contained in this schedule is complete and correct to the best of my knowledge and belief.

(Signature of person furnishing the information.)

(Official designation.)

Date,, 1918.

I. Stocks on Hand or in Transit June 1, 1918.

a. **STOCKS ON HAND.**—State in column (A) stocks on hand in your own factories, warehouses, storerooms, and other space occupied or rented by you in the United States and Canada. State quantity actually in your possession whether you have title to it or not.

b. **STOCKS IN TRANSIT.**—State in column (B) stocks in transit to you from points within the United States or Canada. In this column should be included stocks on docks, in customs warehouses, or in the possession of railroads or other carriers within the United States or Canada. Do not include stocks in transit to you but which have been sold, as they will be reported by the purchaser.

c. **STOCKS AFOLOAT.**—State in column (C) stocks at present in transit to you from foreign countries other than Canada, but not yet arrived in the United States or Canada, viz., stocks on the high seas. Do not include stocks afloat to you which have been sold, as they will be reported by the purchaser.

d. **STOCKS OWNED ABROAD.**—State in column (D) stocks owned by you in foreign countries which have as yet not been placed aboard vessels for transportation to the United States or Canada. Do not include stocks owned in Canada.

Description	(A)	(B)	(C)	(D)
	Stocks on hand	Stocks in transit	Stocks afloat	Stocks owned abroad
	(Quantities to be given in pounds.)			
Raw silk.....				
Thrown silk.....				
Spun silk (including schappe).....				
Pierced cocoons.....				
Prisons and floss.....				
Noils.....				
All other waste.....				
Artificial silk.....				
* State the foreign countries.....				
Remarks.....				

(79)

10-5134

II. Silk Consumed in Manufacture.

State the quantities of silk, etc., used during the specified periods. Include the quantity of silk furnished to other establishments to be thrown, etc., on commission or contract.

Throwsters and other establishments doing work on commission or contract should not report the quantity of materials furnished them. They should, however, report the materials supplied by themselves.

Description.	Calendar year 1918.	Calendar year 1917.	Calendar year 1917.	Jan. 1-May 31, 1918.	Estimate for June 1-Dec. 31, 1918.
	Quantities to be given in pounds.				
Raw silk					
Spun silk and schappe					
Fierced cocoons					
Prisms and flows					
Neils					
All other waste					
Artificial silk					
Remarks:					

III. Consumption of Logwood Dyes.

State the quantity of logwood dyes consumed during 1917, and also estimate requirements for the year 1918. Care should be taken to distinguish between logwood and logwood extract.

Description.	1917.	Jan. 1-May 31, 1918.	Estimate for June 1-Dec. 31, 1918.
	Quantities to be given in pounds.		
In form of logwood			
In form of extracts.			
1. Crystal			
2. Paste			
3. Other forms of extract			

IV. Production.				
State quantities of the following manufacture and by-products produced during the indicated periods (whether sold, unused, or used in further process of manufacture). Report as of your own the quantities of products and by-products made on commission or contract by other establishments from materials furnished by you. Throwsters and other establishments doing work on contract or commission should not report the products and by-products made from materials furnished them. They should, however, report the products and by-products made from materials supplied by themselves.				
Description.	Calendar year 1918.	Calendar year 1916.	Calendar year 1917.	
(Quantities to be given in pounds.)				
Organzino				
Traw				
Spun silk				
Silk waste—Nails				
Silk waste—Throwsters' wastes				
All other silk waste				
V. Machinery as of June 1, 1918.				
State the total number of spindles, cards, dressing machines, looms and Jacquard machines in establishments covered by this report.				
State number engaged on military and naval orders (direct contract or subcontract), the number engaged on other work or orders, and the number idle.				
Class.	Total number.	Number engaged on—		Idle.
		Military and Naval orders.	Other work or orders.	
SPINDLES:				
Throwing, winding spindles (raw silk only)				
Spinning and twisting				
Spun silk, spinning (spun silk from waste)				
Neil yarn spinning				
Total spindles				
CARDS:				
DRESSING MACHINES				
LOOMS:				
Other than velvet and ribbon looms— 40-inch or under reed space				
Over 40-inch reed space				
Velvet looms				
Ribbon looms				
Total looms				
JACQUARD MACHINES:				
Attached (Jacquard looms included above)				
Detached or disconnected				

JUTE.

The statistics for jute are based upon the returns received from 3,473 establishments and include practically all those engaged in the jute trade or industry. Of these, 554 are importers, exporters, dealers, or manufacturers of products composed wholly of jute fiber, and 2,919 are consumers of jute products as wrappers or containers for merchandise, or manufacturers using small quantities of jute in manufacture in conjunction with other materials. The former group was thoroughly canvassed and the latter, which embraces a large number in diversified industries, as extensively as possible. In the aggregate, 11,490 establishments were circularized.

Stocks were reported as of date June 1, 1918, and embraced those on hand, in transit in the United States, afloat or on the high seas, and stocks owned abroad but not yet placed aboard vessels for transportation to the United States.

The inquiry in regard to consumption called for a report of the quantities of jute and burlap consumed in manufacture during the calendar year 1917, the period January 1 to May 31, 1918, and the estimated future consumption for the period June 1 to December 31, 1918. With respect to production the schedule asked for the quantities of bagging for covering cotton, burlap, and jute bags made or to be made during the aforesaid periods. The production statistics here given are confined to jute bags. The figures for bagging and burlap are not shown, to avoid disclosure of individual operations.

The schedule (reproduced on p. 14) also called for the cost per unit of the stocks on hand, in transit, afloat, or owned abroad. No attempt has been made to tabulate these data.

Table 7 shows stocks of jute, bagging, burlap, and bags on hand, in transit, afloat, and owned abroad, on June 1, 1918.

Of the total for all jute stocks, 236,674,422 pounds, 66 per cent was on hand and in the factories or warehouses of the owners and 8 per cent in transit; or 74 per cent was in this country, while 26 per cent was yet to arrive. In the case of bagging, 91.5 per cent was on hand and 8.3 per cent in transit, making 99.8 per cent of the total of 108,432,262 pounds in this country. Cotton bagging is largely of domestic manufacture and the importations are relatively small. Burlap, on the other hand, is heavily imported. The stock on hand constituted 33.9 per cent and in transit 6.7 per cent of the total of 412,461,405 yards; the stocks afloat, 13.7 per cent; and those owned abroad, 45.7 per cent; or of the total, 59.4 per cent was yet to arrive. With respect to jute bags, of the total number, 219,089,582, those on hand constituted 78.7 per cent and in transit 9.4 per cent, or 88.1 per cent were in this country and 11.9 afloat or abroad.

Table 8 presents the statistics for consumption of jute and burlap in the manufacture of jute goods, 1918 and 1917, and the production of jute bags, with percentages of increase.

Table 9 presents the statistics for stocks, jute and burlap consumption, and bag production for a group of the 50 leading establishments and all other establishments, 3,423 in number. The stocks of bagging and bags are largely in the hands of the ginners, the cotton compress companies, the fertilizer, grain, and feed concerns, etc., and the bulk of these show in the "all other" group.

In considering these statistics it must be remembered that both imported burlap and domestic burlap are used in the manufacture of bags, and that there is a large bag importation. The statistics for imports of jute, bagging, burlap, and bags are given for a period of six years, 1913-1918, inclusive, in the following tabular statement:

	1918	1917	1916	1915	1914	1913	PER CENT OF INCREASE. ¹				
							1917-1918	1916-1917	1915-1916	1914-1915	1913-1914
Total, pounds.....	637, 530, 150	715, 640, 306	662, 899, 300	639, 147, 489	791, 249, 590	742, 716, 066	-10. 9	8. 0	3. 7	-19. 2	6. 5
Jute and jute butts, pounds..	156, 624, 000	225, 390, 000	216, 644, 000	166, 280, 000	202, 066, 000	250, 778, 000	-30. 5	4. 0	30. 3	-17. 7	-19. 4
Bagging, gunny cloth, and similar fabrics suitable for covering cotton:											
Square yards.....	1, 772, 717	3, 498, 774	2, 579, 157	9, 813, 227	14, 514, 993	7, 815, 494	-49. 3	35. 6	-73. 7	-32. 4	85. 7
Pounds ²	4, 432, 000	8, 747, 000	6, 448, 000	24, 533, 000	36, 287, 000	19, 539, 000					
Burlaps or plain woven fabrics of single jute yarn, pounds.....	442, 385, 153	446, 282, 193	382, 438, 713	397, 355, 965	495, 861, 243	420, 599, 029	-0. 8	16. 7	-3. 7	-19. 9	17. 9
Bags of jute, pounds.....	34, 088, 997	35, 221, 113	57, 368, 587	50, 978, 524	57, 035, 347	51, 800, 037	-3. 2	-38. 6	12. 5	-10. 6	10. 1

¹ A minus sign (—) denotes decrease.

² Basis of conversion, 2½ pounds per square yard.

CENSUS OF WAR COMMODITIES.

Table 7.—STOCKS OF JUTE, BAGGING, BURLAP, AND BAGS ON JUNE 1, 1918.

	TOTAL.		On hand.	In transit.	Afloat.	Owned abroad.
	Quantity.	Per cent distribution.				
JUTE.....pounds..	236, 674, 422	100. 0	156, 189, 251	19, 001, 471	22, 073, 300	39, 410, 400
Raw jute.....	152, 520, 721	64. 4	117, 304, 050	8, 654, 971	14, 929, 700	11, 632, 000
Jute butts and rejections.....	84, 153, 701	35. 6	38, 885, 201	10, 346, 500	7, 143, 600	27, 778, 400
Manufacturers of jute goods (41 establishments).....	166, 761, 260	70. 5	94, 520, 371	13, 632, 089	20, 758, 400	37, 850, 400
Raw jute.....	87, 857, 346	37. 1	59, 962, 457	3, 348, 089	13, 614, 800	10, 932, 000
Jute butts and rejections.....	78, 903, 914	33. 4	34, 557, 914	10, 284, 000	7, 143, 600	26, 918, 400
Other consumers, importers and dealers (3,432 establishments).....	69, 913, 162	29. 5	61, 668, 880	5, 369, 382	1, 314, 900	1, 560, 000
Raw jute.....	64, 663, 375	27. 3	57, 341, 593	5, 306, 882	1, 314, 900	700, 000
Jute butts and rejections.....	5, 249, 787	2. 2	4, 327, 287	62, 500		860, 000
Six leading states (ranked):						
Massachusetts.....	233, 740, 158	98. 8	154, 588, 857	17, 924, 101	21, 876, 800	39, 350, 400
New Jersey.....						
New York.....						
Pennsylvania.....						
Connecticut.....						
California.....						
All other states.....	2, 934, 264	1. 2	1, 600, 394	1, 077, 370	196, 500	60, 000
BAGGING (for covering cotton).....pounds..	108, 432, 262	100. 0	99, 273, 922	8, 987, 440	60, 000	110, 900
Six leading states (ranked):						
Texas.....	85, 853, 032	79. 2	82, 200, 631	3, 592, 401	60, 000	
Massachusetts.....						
New York.....						
Georgia.....						
Mississippi.....						
Alabama.....						
All other states.....	22, 579, 230	20. 8	17, 073, 291	5, 395, 039		110, 900
BURLAP.....linear yards..	412, 461, 405	100. 0	139, 633, 799	27, 700, 366	56, 469, 592	188, 657, 648
Under 10-ounce.....	231, 530, 568	56. 1	85, 320, 609	14, 688, 967	32, 560, 692	98, 960, 300
10-ounce and over.....	180, 930, 837	43. 9	54, 313, 190	13, 011, 399	23, 908, 900	89, 697, 348
Manufacturers of jute goods.....	320, 111, 638	77. 6	102, 727, 819	17, 743, 727	44, 649, 092	154, 991, 000
Other consumers, importers, and dealers.....	92, 349, 767	22. 4	36, 905, 980	9, 956, 639	11, 820, 500	33, 666, 648
Six leading states (ranked):						
Massachusetts.....	347, 107, 255	84. 2	109, 529, 109	20, 018, 106	47, 188, 692	170, 371, 348
New York.....						
Illinois.....						
Missouri.....						
Minnesota.....						
California.....						
All other states.....	65, 354, 150	15. 8	30, 104, 690	7, 682, 260	9, 280, 900	18, 286, 300
BAGS.....number..	219, 089, 582	100. 0	172, 524, 057	20, 692, 311	13, 265, 820	12, 607, 394
New.....	127, 988, 975	58. 4	89, 872, 417	13, 870, 713	11, 936, 545	12, 309, 300
Cuban and Porto Rican sugar bags.....	15, 658, 981	7. 2	3, 237, 561	1, 665, 936	2, 886, 284	7, 869, 200
All other—						
Under 10-ounce burlap.....	63, 400, 144	28. 9	52, 209, 901	8, 750, 882	1, 977, 261	462, 100
10-ounce burlap and over.....	48, 929, 850	22. 3	34, 424, 955	3, 453, 895	7, 073, 000	3, 978, 000
Six leading states (ranked):						
New York.....	80, 793, 189	36. 9	53, 831, 510	8, 247, 818	8, 867, 861	9, 846, 000
California.....						
Illinois.....						
Minnesota.....						
Massachusetts.....						
Texas.....						
All other states.....	47, 195, 786	21. 5	36, 040, 907	3, 622, 895	3, 068, 684	2, 463, 300
Secondhand.....	91, 100, 607	41. 6	82, 651, 640	6, 821, 598	1, 329, 275	298, 094
Washed sugar bags.....	15, 507, 769	7. 0	14, 306, 986	341, 200	859, 583	
Unwashed, coconut, soya bean, and similar heavy bags.....	5, 810, 419	2. 7	5, 017, 539	410, 273	126, 763	255, 844
All other of 7½ to 12 ounce burlap.....	69, 782, 419	31. 9	63, 327, 115	6, 070, 125	342, 929	42, 250
Six leading states (ranked):						
New York.....	51, 836, 579	23. 7	46, 847, 898	3, 825, 978	953, 924	208, 779
Texas.....						
California.....						
Massachusetts.....						
Delaware.....						
Georgia.....						
All other states.....	39, 264, 028	17. 9	35, 803, 742	2, 995, 620	375, 351	89, 315

Table 8.—CONSUMPTION OF JUTE AND BURLAP AND PRODUCTION OF JUTE BAGS: 1918 AND 1917.

	1918			1917	Per cent of increase, ¹ 1917-1918.
	Year.	Jan. 1-May 31.	June 1-Dec. 31 (estimated).		
CONSUMPTION IN MANUFACTURE OF JUTE GOODS.					
JUTE.....pounds..	233, 261, 097	76, 637, 622	156, 623, 475	232, 475, 670	0. 3
Raw jute.....	143, 827, 809	57, 140, 674	86, 687, 135	153, 697, 613	-6. 4
Jute butts and rejections.....	89, 433, 288	19, 496, 948	69, 936, 340	78, 778, 057	13. 5
Manufacturers primarily of jute goods.....	224, 404, 576	73, 571, 776	150, 832, 800	222, 835, 583	0. 7
Raw jute.....	136, 140, 491	54, 247, 691	81, 892, 800	145, 128, 634	-6. 2
Jute butts and rejections.....	88, 264, 085	19, 324, 085	68, 940, 000	77, 706, 949	13. 6
Other manufacturers of jute goods.....	8, 856, 521	3, 065, 846	5, 790, 675	9, 640, 087	-8. 1
Raw jute.....	7, 687, 318	2, 892, 983	4, 794, 335	8, 568, 979	-10. 3
Jute butts and rejections.....	1, 169, 203	172, 863	996, 340	1, 071, 108	9. 1
BURLAP.....linear yards..	642, 101, 351	264, 351, 735	377, 749, 616	621, 691, 204	3. 3
Under 10-ounce.....	374, 135, 447	145, 109, 528	229, 025, 919	367, 547, 665	1. 8
10-ounce and over.....	267, 965, 904	119, 242, 207	148, 723, 697	254, 143, 539	5. 4
Manufacturers primarily of jute goods.....	620, 025, 423	254, 489, 777	365, 535, 646	597, 074, 860	3. 8
Other manufacturers of jute goods.....	22, 075, 928	9, 861, 958	12, 213, 970	24, 616, 344	-10. 3
PRODUCTS. ²					
BAGS.....number..	344, 134, 016	133, 717, 881	210, 416, 135	342, 985, 634	0. 3
Sugar bags.....	4, 357, 978	3, 607, 978	750, 000	9, 144, 995	.....
Other bags—					
Under 10-ounce burlap.....	183, 623, 504	64, 155, 773	119, 467, 731	176, 129, 607	.....
10-ounce burlap and over.....	156, 152, 534	65, 954, 130	90, 198, 404	157, 711, 032	.....

¹ A minus sign (—) denotes decrease.² Production of bagging and burlap not shown, to avoid disclosure of individual operations.

Table 9.—STATISTICS FOR JUTE AND BURLAP CONSUMPTION AND BAG PRODUCTION FOR THE FIFTY LEADING ESTABLISHMENTS IN THE INDUSTRY.

	Total (3,473 establishments).	FIFTY LEADING ESTABLISHMENTS.		All other (3,423 establishments).
		Amount.	Per cent of total.	
STOCKS, JUNE 1, 1918.				
JUTE.....pounds..	236, 674, 422	222, 738, 200	94. 1	13, 936, 222
BAGGING.....pounds..	108, 432, 262	42, 565, 104	39. 2	65, 867, 158
BURLAP.....linear yards..	412, 461, 405	340, 689, 657	82. 6	71, 771, 748
BAGS.....number..	219, 089, 582	32, 037, 267	14. 6	187, 052, 315
New.....	127, 988, 975	17, 888, 323	14. 0	110, 100, 652
Secondhand.....	91, 100, 607	14, 148, 944	15. 5	76, 951, 663
CONSUMPTION IN MANUFACTURE OF JUTE GOODS.				
JUTE (pounds):				
1918 ¹	233, 261, 097	219, 053, 753	93. 9	14, 207, 344
1917.....	232, 475, 670	218, 714, 073	94. 1	13, 761, 597
BURLAP (linear yards):				
1918 ¹	642, 101, 351	602, 791, 694	93. 9	39, 309, 657
1917.....	621, 691, 204	561, 335, 023	90. 3	60, 356, 181
PRODUCTS. ²				
BAGS (number):				
1918 ¹	344, 134, 016	312, 093, 738	90. 7	32, 040, 278
1917.....	342, 985, 634	271, 976, 180	79. 3	71, 009, 454

¹ Actual consumption for 5 months, estimated requirements for 7 months.² Production of bagging and burlap not shown, to avoid disclosure of individual operations. The leading companies produced all but a small fraction of 1 per cent of the same.

CENSUS OF WAR COMMODITIES.

SCHEDULE USED TO SECURE STATISTICS OF JUTE.

CONFIDENTIAL—(WAR MEASURE)

8-4580 [YY2-555]

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
SAM. L. ROGERS, DIRECTOR

STATISTICS OF JUTE
EUGENE F. HARTLEY
CHIEF STATISTICIAN FOR MANUFACTURES

NAME OF ESTABLISHMENT.....

LOCATION OF ESTABLISHMENT: State..... City or town.....

ADDRESS OF GENERAL OFFICE.....

NATURE OF BUSINESS.....

IF A COMBINED REPORT, ENUMERATE PLANTS AND ESTABLISHMENTS COVERED BY THIS REPORT.
NAMES AND ADDRESSES:

WASHINGTON, D. C., June 10, 1918.

A census of the stocks of jute and jute products, on hand and in transit, accurate data concerning which are absolutely necessary to the proper conduct and furtherance of the war, is authorized by the Secretary of Commerce under the provisions of section 8 of the organic act creating the Department of Commerce and Labor, as follows:

"That the Secretary of Commerce * * * shall * * * from time to time make such special investigations and reports as he may be required to do by the President, or by either House of Congress, or which he himself may deem necessary and urgent."

And the special authority of the President of the United States, under date of April 8, 1918, as follows: "The Secretary of Commerce is hereby authorized to cause the compilation by the Bureau of the Census of such statistical data within its lawful scope and relating to the supply, production, and consumption of commodities as may be needed and be called for by any branch of the Federal Government in connection with the conduct of the war."

Information regarding individual concerns will be kept strictly confidential, but aggregate statistics, from which individual figures can not be deduced, may be placed at the disposal of the trade.

Important.—The present war emergency demands the patriotic cooperation of all interests that centralized information may be available to permit immediate and complete use of all facilities, the conservation of raw materials and efficient distribution thereof. Accurate and prompt replies are imperative.

SAM. L. ROGERS,
Director of the Census.

CERTIFICATE

Date,, 1918. (Signed).....

STATE OF.....

COUNTY OF.....

....., being duly sworn, deposes and says that

he is the of the company, that he has read the foregoing statement and the same is true to his own knowledge, except as to matters therein stated on information or belief, and that as to those matters he believes it to be true.

Sworn to before me this day of, 1918.

I. Stocks on hand or in transit June 1, 1918.

a. Stocks on Hand.—Report in column (A) all jute material and the jute products specified, actually on hand in your own factories, warehouses, storerooms, or other places owned or rented by you, in the Continental United States. It should include quantities actually in your possession, whether you have title to them or not.

b. Stocks in Transit.—Report in column (B) all jute material and the jute products specified which you know are in transit to you in the United States from seaport or other point, but not yet received, including those on docks, in custom warehouses, or in the possession of railroads, or other carriers. Do not include stocks in transit to you which have been sold, as they will be reported by the purchaser.

c. Stocks Afloat.—Report in column (C) stocks at present in transit to you from foreign countries, but not yet arrived in the United States. It should include material which has arrived by vessel at Canadian ports and which is in transit to you by rail or coastwise vessel. Do not include stocks afloat to you which have been sold, as they will be reported by the purchaser.

d. Stocks Overseas Afloat.—Report in column (D) stocks owned or contracted for by you in foreign countries, which have as yet not been placed aboard vessels for transportation to the United States or Canada. Do not include stocks in Canada on the way to you, as these belong properly under (C).

Report quantities in the unit indicated—Jute and bagging in pounds, burlap in linear yards, and bags in number.

DESCRIPTION	(A) STOCKS ON HAND	(B) STOCKS IN TRANSIT	(C) STOCKS AFLOAT	(D) STOCKS OVERSEAS AFLOAT
JUTE:				
Raw jute.....pounds.....				
Jute butts and rejections.....pounds.....				
TOTAL JUTE.....pounds.....				
BAGGING (for covering cotton).....pounds.....				
BURLAP:				
Under 10-ounce, linear yds.....				
10-ounce and over, linear yds.....				
TOTAL BURLAP, linear yds.....				
NEW JUTE BAGS:				
Cuban and Porto Rican sugar bags.....number.....				
All other new bags:				
Made of burlap, under 10 ounces per yard, number.....				
Made of burlap, 10 ounces or heavier per yard, number.....				
SECOND-HAND JUTE BAGS:				
Washed sugar bags.....number.....				
Unwashed, coconut, soya bean, and similar heavy bags.....number.....				
Other second-hand bags of 7 1/2 to 12 ounce burlap.....number.....				
TOTAL JUTE BAGS.....number.....				

II. Costs of stocks reported in Table I (page 2).

* Give in column A-C the average cost per pound of a. b. your factory (or f. o. b. warehouse where the goods are stored in the case of goods not at a factory) of the items given in column "A" in Table I (page 2)

Give in columns B-C, C-C, and D-C the estimated cost f. o. b. factory (or f. o. b. warehouse where the goods are to be stored in the case of goods not immediately routed to factory) for items in columns B, C, and D, respectively (page 2).

In column D-C, when giving costs of stocks still in India, if exchange has been bought covering the purchases in question give cost in cents for goods f. o. b. place of storage in India. If exchange has not been bought give cost f. o. b. place of storage in India in rupees.

The average cost in cents per pound, linear yard, or number as indicated for each item is found by dividing the total f. o. b. cost of the stocks in question by the quantity in pounds, linear yards, or number as indicated of these stocks.

DESCRIPTION	A-C Cost of Stocks ON HAND	B-C Cost of Stocks IN TRANSIT	C-C Cost of Stocks AFLOAT	D-C Cost of Stocks OVERSEAS AFLOAT
JUTE:				
Raw jute.....per pound.....				
Jute butts and rejections.....per pound.....				
BAGGING (for covering cotton), per pound.....				
BURLAP:				
Under 10-ounce, per linear yd.....				
10-ounce and over, per linear yd.....				
NEW JUTE BAGS:				
Cuban and Porto Rican sugar bags.....per bag.....				
All other new bags:				
Made of burlap, under 10 ounces per yard, per bag.....				
Made of burlap, 10 ounces or heavier per yard, per bag.....				
SECOND-HAND JUTE BAGS:				
Washed sugar bags.....per bag.....				
Unwashed, coconut, soya bean, and similar heavy bags.....per bag.....				
Other second-hand bags of 7 1/2 to 12 ounce burlap, per bag.....				

III. Consumption.

Manufacturers should report the quantity of jute and burlap used during the indicated periods.

DESCRIPTION	CALENDAR YEAR 1917.	JAN. 1 TO MAY 31, 1918.	ESTIMATED FUTURE CONSUMPTION JUNE 1 TO DEC. 31, 1918.
JUTE:			
Raw jute.....pounds.....			
Jute butts and rejections.....pounds.....			
TOTAL JUTE.....pounds.....			
BURLAP:			
Under 10-ounce.....linear yards.....			
10-ounce and over.....linear yards.....			
TOTAL BURLAP.....linear yards.....			

IV. Production.

State quantities of the following manufactures produced during the indicated periods (whether sold or unsold, or used in further processes of manufacture). Report as of your own, the quantities of products made on commission or contract by other establishments from materials furnished by you.

DESCRIPTION	CALENDAR YEAR 1917.	JAN. 1 TO MAY 31, 1918.	ESTIMATED FUTURE PRODUCTION JUNE 1 TO DEC. 31, 1918.
BAGGING for covering cotton.....pounds.....			
BURLAP:			
Under 10-ounce.....linear yards.....			
10-ounce and over.....linear yards.....			
TOTAL BURLAP.....linear yards.....			
JUTE BAGS:			
Sugar bags.....number.....			
Other bags:			
Under 10-ounce burlap.....number.....			
10-ounce and over burlap.....number.....			
TOTAL BAGS.....number.....			

KAPOK.

The statistics for kapok comprise the data furnished on 22 schedules returned by importers and dealers and 291 returned by manufacturers. (See schedule reproduced on p. 16.)

Kapok is the seed fiber of the silk-cotton tree (*Eriodendron anfractuosum*). The seeds resemble the seed of the cotton plant, being similarly enveloped in a mass of silky fibers. The fiber is hollow in structure and in mass has a bouyancy almost equal to that of cork. For transportation about 500 cubic feet of space are required for a ton of kapok, tight packing being detrimental to the fiber. It is imported principally from Java, and is used as filling for mat-

tresses, pillows, cushions, pads, life preservers, and as an upholstery material.

The following table presents the statistics for: (1) Stocks on hand, in transit to the reporting establishment, afloat, and owned abroad, on May 1, 1918, as reported by the 313 establishments, with segregated statistics for importers and dealers, and manufacturers, respectively, and stocks reported by manufacturers, distributed by states; (2) imports for the fiscal years ending June 30, 1913, to 1918, inclusive; (3) statistics of consumption for 1918, 1917, and 1916 for the United States and by states, and by class of products for 1917.

Table 10.—KAPOK FIBER—STOCKS ON HAND AND IN TRANSIT, MAY 1, 1918; IMPORTS FOR THE FISCAL YEARS 1913 TO 1918; AND CONSUMPTION DURING 1918, 1917, AND 1916.

STOCKS, MAY 1, 1918.				CONSUMPTION.		
	Number of establishments.	Quantity (pounds).	Per cent.		Quantity (pounds).	Per cent of increase. ¹
Total.....	313	10, 133, 499	100. 0	United States (291 establishments):		
On hand.....		2, 845, 017	28. 1	1918.....	11, 392, 655	34. 5
In transit.....		1, 832, 456	18. 1	January 1 to April 30.....	2, 648, 890	
Afloat.....		1, 683, 026	16. 6	May 1 to August 30 (estimated).....	4, 252, 197	
Owned abroad.....		3, 773, 000	37. 2	September 1 to December 31 (estimated).....	4, 491, 568	
Importers and dealers.....	22	4, 123, 251	40. 7	1917.....	8, 472, 830	45. 7
On hand.....		796, 907	7. 9	Mattresses.....	309, 007	5, 022, 370
In transit.....		214, 000	2. 1	Pillows, cushions, and pads.....	1, 215, 049	1, 777, 378
Afloat.....		1, 403, 344	13. 8	Life preservers of various kinds.....	206, 900	237, 730
Owned abroad.....		1, 709, 000	16. 9	Other articles.....		1, 435, 352
Manufacturers.....	291	6, 010, 248	59. 3	1916.....	5, 815, 041	
On hand.....		2, 048, 110	20. 2	California (17 establishments):		
In transit.....		1, 618, 456	16. 0	1918.....	1, 282, 149	26. 8
Afloat.....		279, 682	2. 7	1917.....	1, 011, 010	17. 4
Owned abroad.....		2, 064, 000	20. 4	1916.....	861, 093	
Manufacturers, by states:				Illinois (18 establishments):		
California.....	17	644, 710	6. 4	1918.....	1, 031, 101	16. 4
Illinois.....	18	604, 866	6. 0	1917.....	885, 707	98. 6
Massachusetts.....	30	306, 288	3. 2	1916.....	446, 000	
Ohio.....	24	137, 034	1. 3	Massachusetts (30 establishments):		
New Jersey, New York, and Pennsylvania.....	83	3, 961, 903	39. 1	1918.....	2, 132, 057	37. 2
All other states.....	119	355, 447	3. 3	1917.....	1, 557, 357	27. 5
				1916.....	1, 221, 517	
				Ohio (24 establishments):		
				1918.....	510, 524	-29. 9
				1917.....	728, 464	5. 3
				1916.....	691, 633	
				New Jersey, New York, and Pennsylvania (83 establishments):		
				1918.....	5, 656, 361	63. 3
				1917.....	3, 463, 656	69. 7
				1916.....	2, 040, 905	
				All other states (19 establishments):		
				1918.....	780, 463	-5. 6
				1917.....	826, 636	49. 2
				1916.....	553, 893	

IMPORTS.	Tons.	Value.	PER CENT OF INCREASE. ¹	
			Tons.	Value.
Fiscal year ending June 30:				
1918.....	4, 683	\$1, 240, 070	-31. 7	-25. 8
1917.....	6, 861	1, 671, 245	21. 6	46. 6
1916.....	5, 642	1, 139, 648	46. 2	48. 5
1915.....	3, 860	767, 509	111. 3	74. 0
1914.....	1, 827	441, 109	-26. 4	-45. 5
1913.....	2, 482	809, 001		

¹ A minus sign (—) denotes decrease.

[illegible]

I. Stocks on hand or in transit, May 1, 1918.

a. STOCKS ON HAND.—Quantity, pounds,

State quantity of kapok fiber actually on hand in your own factories, warehouses, storerooms and other space owned or rented by you in the United States and Canada. State quantity actually in your possession whether you have title to it or not.

b. STOCKS IN TRANSIT.—Quantity, pounds,

State quantity of kapok fiber in transit to you from points within the United States and Canada. Include stocks on docks, in custom warehouse, or in the possession of railroads or other carriers within the United States or Canada. Do not include stocks in transit to you but which have been sold, as they will be reported by the purchaser.

c. STOCKS AFOLOAT.—Quantity, pounds,

State quantity of kapok fiber at present in transit to you from foreign countries other than Canada, but not yet arrived in the United States or Canada, viz., stocks on the high seas. Do not include stocks about to you but which have been sold, as they will be reported by the purchaser.

d. STOCKS OWNED ABROAD.—Quantity, pounds,

State quantity of kapok fiber owned by you in foreign countries which has as yet not been placed aboard vessels for transportation to the United States or Canada. Do not include stocks owned in Canada.

Name here the foreign country.....

II. Kapok consumed in manufacture.

State in pounds the quantity of kapok fiber used during the specified periods:

Calendar year 1916.....pounds

Calendar year 1917.....pounds

January 1 to May 1, 1918.....pounds

Estimated future consumption—
May 1 to September 1, 1918.....pounds

September 1 to December 31, 1918.....pounds

Note.—Comment briefly on any variation in the quantity of fiber consumed by you monthly during the year, indicating the normal maximum and minimum months in the year with the approximate consumptions.

(2)

[illegible][illegible]